

# MEN'S HEALTH MATTERS

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UROLOGICAL SURGEON  
DR MARTIN ELMES



Offering your patients quality  
Urological care

Minimally Invasive Prostate BPH Treatments  
Robotic Prostate and Kidney Surgery  
Penile Prosthesis 'no-touch' technique Erectile Dysfunction surgery



## THIS ISSUE NEWS AND UPDATES

- **Kidney Stone Laser treatment**
- **Artemis computer targeted Fusion Biopsy - advanced accuracy of detecting prostate cancer**
- **Penile Prosthesis surgery - no touch technique**

### LASER TREATMENT FOR KIDNEY STONES

#### HOLMIUM LASER

- Low power <30W is the traditional machine used for lasering stones
- Stones <20mm only best if <10mm

#### Other options:

##### ESWL -> stones < 10mm

- Bleeding/kidney injury
- Long-term hypertension
- Must pass fragments through undilated ureter

##### PCNL -> stones >20mm

- Bleeding/ T'fusion/embolisation
- Pain
- Infection
- Failure to remove stone
- Lung/bowel injury

**BUT now** with high powered 100W laser (6-10x more powerful than standard Holmium Laser) all stones except a complete Staghorn can be treated via ureteroscopy/high power laser. Less retropulsion, faster fragmentation.

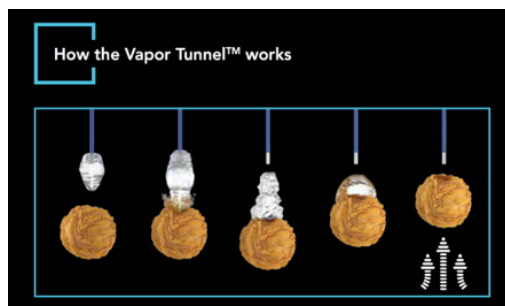
## STONE VAPOR TUNNEL CYBER HO 100 ADVANCED RETROPULSION CONTROL

The 100 W high-powered device offers exclusive Vapor tunnel technology for advanced retropulsion (backward) control. The VAPOR TUNNEL (reduces stone retropulsion) effect allows stone ablation while holding the target in place, without inducing stone retropulsion.

It is a bubble within a bubble which creates a **Virtual basket**. The 2nd bubble causes the stone fragmentation and the first bubble collapsing results in a suction effect bringing the stone back to the laser fibre tip so creating a virtual stone basket.

This results in easier treatment and due to less stone retropulsion it prevents time consuming fiber repositioning.

Watch this video to see stone retropulsion control.  
Click here --> <https://bit.ly/3yf56NU>



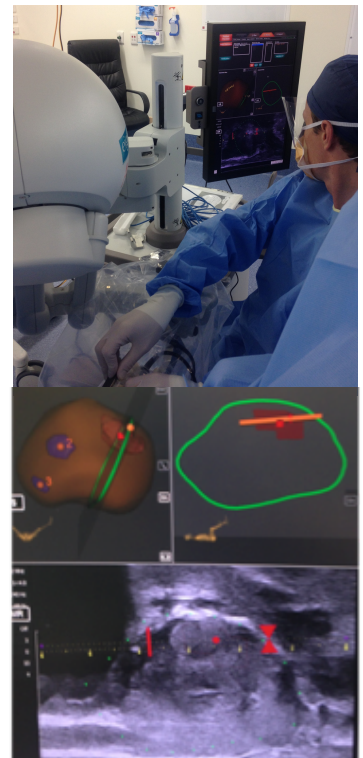
A study on Vapor tunnel by Morini et al. concluded that Vapour tunnel technology is associated with significantly lower fragmentation and procedural times. The reduced fragmentation time is a result of the significantly lower retropulsion of the stones during laser lithotripsy, thus improving stone fragmentation efficiency.

# ARTEMIS COMPUTER TARGETED FUSION BIOPSY

Artemis allows biopsy site tracking with 3D ultrasound image and full colour model and fusion of real-time ultrasound with MRI. Artemis semi-automatically computes gland volume and boundaries. This enhances tissue structure visualisation for improved planning and guidance.

Artemis provides several imaging enhancements to standard 2D ultrasound:

- Greatly increases the ability to examine the prostate for abnormalities or suspicious areas which may need sampling
- Advanced needle navigation and tracking
- Sophisticated recording of actual biopsy sites sampled; sites can be revisited at any time
- View and overlay previous prostate gland volumes and biopsy locations



## THE PERMANENT SOLUTION TO YOUR PATIENT'S ERECTILE DYSFUNCTION

### PENILE PROSTHESIS - NO TOUCH TECHNIQUE

For patients suffering from moderate to severe ED who have tried injection therapy with no success, I am able to perform the permanent surgical option with the insertion of a Penile Prosthesis. I have had great outcomes for patients who have undergone this procedure and with the use of the "no touch" technique lowering the chance of infection rates resulting in greater patient satisfaction.

We continue to see patients with ED who require surgical intervention. More information is available on our ED specific website [www.edsa.com.au](http://www.edsa.com.au).



### GP EDUCATION EVENING SUCCESS!

Thanks to all GPs that attended the GP CPD Education evening sponsored by Medilaze at Miss Money Penny's in Broadbeach. It was a great night discussing Urological advances and Orthopaedic conditions affecting ageing men. Keep an eye-out for next year's event details! We'd love to have you there.



#### Journal references:

Morini et al. Stone Disease: Surgical Therapy VII, "Vaportunnel Ureteroscopic Holmium Laser Lithotripsy: Intraoperative and early postoperative outcomes 2020.